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मानक

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IS 13004-1 (1990): Inland vessels - Fairleads s, Part 1
Two-lip fairleads [TED 18: Inland, Harbour Crafts and
Fishing Vessels]



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भारतीय मानक

अन्तर्देशीय जलयान के फेयरलीड — विशिष्ट

भाग 1 टू-लिप फेयरलीड

Indian Standard

**INLAND VESSELS — FAIRLEADS —
SPECIFICATION**

PART 1 TWO-LIP FAIRLEADS

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**BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002**

FOREWORD

This Indian Standard (Part 1) was adopted by the Bureau of Indian Standards on 22 April 1990, after the draft finalized by the Inland and Harbour Crafts Sectional Committee had been approved by the Transport Engineering Division Council.

This standard lays down the requirements for fairleads and is being issued in the following two parts:

Part 1 Two-lip fairleads

Part 2 Roller fairleads

While preparing this standard, assistance has been derived from ISO 4127/1 'Shipbuilding — Inland Navigation — Fairleads — Part 1: Two-lip Fairleads', issued by the International Organization for Standardization (ISO).

Indian Standard
**INLAND VESSELS — FAIRLEADS —
SPECIFICATION**

PART 1 TWO-LIP FAIRLEADS

1 SCOPE

1.1 This standard (Part 1) lays down the requirements for two-lip fairleads for inland vessels.

2 DIMENSIONS

2.1 The dimensions of two-lip fairleads shall be as given in Table 1.

3 MATERIAL

3.1 Fairleads shall be fabricated from weldable cast steel having a yield point of not less than 220 N/mm^2 ($\approx 22 \text{ kgf/mm}^2$).

4 GENERAL REQUIREMENTS

4.1 The fairleads shall withstand, without damage and plastic deformation, the breaking

load of a steel wire rope as indicated in Table 1.

4.2 The castings shall be cleaned by sand-blasting and shall be suitably annealed.

4.3 The surfaces coming in contact with the rope shall be finished smooth.

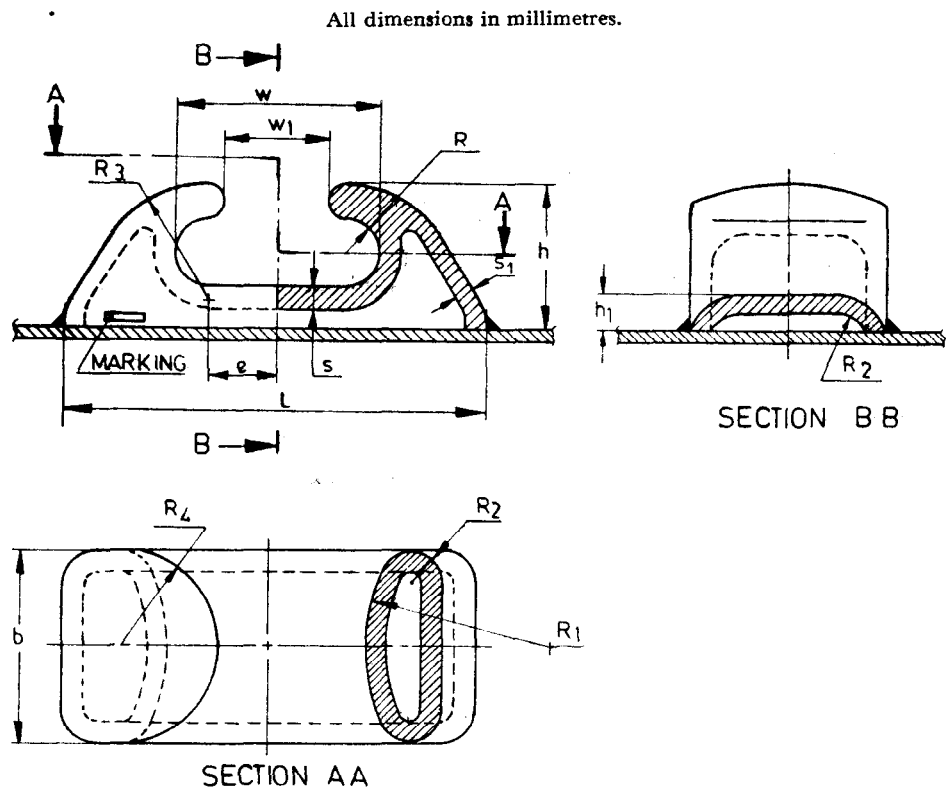
5 PACKING

5.1 The fairleads shall be suitably packed in accordance with the best prevalent trade practices.

6 MARKING

6.1 The fairleads shall be suitably marked with the nominal size and indication of the source of manufacture.

Table 1 Dimension of Two-Lip Fairleads
(Clauses 2.1 and 4.1)



Size	b	e	h	h ₁	L	R	R ₁	R ₂	R ₃	R ₄	s	s ₁	w	w ₁	Rope Breaking Strength	Steel Wire Rope Diameter
	mm														kN	mm
1	75	25	54	16	150	12	75	15	40	40	10	10	74	35	25	7
2	90	30	66	18	190	16	90	20	55	47	10	10	92	45	40	9
3	105	35	72	20	230	23	105	25	80	54	12	10	100	55	63	11
4	120	40	96	21	280	29	125	30	95	62	14	10	125	70	100	14
5	140	50	128	25	350	40	160	40	115	75	16	12	160	90	160	18
6	160	63	154	25	430	50	180	55	145	90	18	12	200	110	250	22
7	220	100	244	40	680	80	250	70	230	125	22	16	320	180	400	28

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